

What Is Claimed Is:

1. A method of implementing a reduced slotted mode in a mobile station comprising:

5 transmitting a request for reduced slotted mode, wherein the request comprises a desired reduced slotted timer value and a desired reduced slot cycle index value;

determining whether the request is granted; and
when the request is granted,

10 operating in reduced slotted mode until one of a time corresponding to the reduced slotted timer value occurs and a period of time corresponding to the reduced slotted timer value elapses, wherein a frequency at which the mobile station checks for a page is governed by the reduced slot cycle index value.

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2. The method of claim 1 wherein the reduced slot cycle index value is a value that causes the mobile station to check for a page continuously.

3. The method of claim 1 further comprising operating in Normal Slotted
20 Mode using a registered slot cycle index after one of the time corresponding to the reduced slotted timer value occurs and the period of time corresponding to the reduced slotted timer value elapses.

4. The method of claim 1 further comprising determining whether an
25 event has occurred to cause the mobile station to cease operating in reduced slotted mode when one of the time corresponding to the reduced slotted timer value has not occurred and the period of time corresponding to the reduced slotted timer value has not elapsed.

30 5. The method of claim 4 wherein determining whether an event has occurred to cause the mobile station to cease operating in reduced slotted mode comprises determining whether the mobile station has acquired a traffic channel.

6. The method of claim 1 wherein when the request is not granted, the method comprises:

5 continuing Normal operation wherein a frequency at which the mobile station checks for a page is governed by a registered slot cycle index value.

7. The method of claim 1 wherein determining whether the request is granted comprises determining whether the mobile station received an indication from the base station that the base station supports reduced slotted mode.

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8. The method of claim 1 wherein determining whether the request is granted comprises determining that the request was not rejected by the base station.

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9. The method of claim 1 wherein when the request is granted, the method comprises:

20 determining whether a base station specified a maximum reduced slotted timer value, wherein the maximum reduced slotted timer value is one of earlier in time than the desired reduced slotted timer value and less than the desired reduced slotted timer value; and

25 when the base station specified a maximum value that is one of earlier in time than the desired value and less than the desired value, setting the reduced slotted timer value equal to the maximum reduced slotted timer value specified by the base station.

10. A method of implementing a reduced slotted mode in a mobile station comprising:

30 receiving a first message from a base station, the first message indicating whether the base station supports reduced slotted mode;

when the base station supports reduced slotted mode,

determining whether the first message specifies a maximum reduced slotted timer value;

when the first message does not specify a maximum reduced slotted timer value, sending a second message to the base station requesting reduced slotted mode, wherein the second message specifies a reduced slotted timer value and a desired reduced slot cycle index value;

when the first message specifies a maximum reduced slotted timer value, sending a second message to the base station requesting reduced slotted mode, wherein the second message specifies a reduced slot cycle index and a reduced slotted timer value that is one of earlier in time than the maximum reduced slotted timer value specified in the first message, less than the maximum reduced slotted timer value specified in the first message and equal to the maximum reduced slotted timer value specified in the first message; and

operating in reduced slotted mode until one of a time corresponding to the reduced slotted timer value occurs and a period of time corresponding to the reduced slotted timer value elapses, wherein a frequency at which the mobile station checks for a page is governed by the reduced slot cycle index value.

11. The method of claim 10 further comprising determining whether an event has occurred to cause the mobile station to cease operating in reduced slotted mode when one of the time corresponding to the reduced slotted timer value has not occurred and the period of time corresponding to the reduced slotted timer value has not elapsed.

12. The method of claim 10 wherein the reduced slot cycle index value is a value that causes the mobile station to check for a page continuously.

13. The method of claim 11 wherein determining whether an event has occurred to cause the mobile station to cease operating in reduced slotted mode comprises determining whether the mobile station has acquired a traffic channel.

14. The method of claim 10 wherein when the base station does not support reduced slotted mode, the method comprises:

resuming Normal operation wherein a frequency at which the mobile station checks for a page is governed by a registered slot cycle index value.

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15. A method of implementing a reduced slotted mode in a base station comprising:

sending a message to a mobile station, the message indicating whether the base station supports reduced slotted mode;

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receiving a request for reduced slotted mode, the request comprising a desired reduced slot cycle index value and a desired reduced slotted timer value;

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operating in reduced slotted mode until one of a time corresponding to the reduced slotted timer value occurs and a period of time corresponding to the reduced slotted timer value elapses, wherein a slot in which the base station pages the mobile station is governed by the reduced slot cycle index value.

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16. The method of claim 15 wherein before operating in reduced slotted mode, the method further comprises:

determining whether the desired reduced slotted timer value is one of later in time than a maximum reduced slotted timer value and greater than a maximum reduced slotted timer value; and

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when the desired value is one of later in time than the maximum and greater than the maximum, setting a reduced slotted timer value equal to the maximum reduced slotted timer value.

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17. The method of claim 16 further comprising communicating the maximum reduced slotted timer value to the mobile station.

18. The method of claim 15 wherein when the base station is operating in reduced slotted mode, the method further comprises determining whether an

event has occurred to cause the base station to cease operating in reduced slotted mode.

5 19. The method of claim 18 wherein determining whether an event has occurred to cause the base station to cease operating in reduced slotted mode comprises determining at least one of whether a time corresponding to the reduced slotted timer value has occurred and whether the period of time corresponding to the reduced slotted timer value has elapsed.

10 20. The method of claim 18 wherein determining whether an event has occurred to cause the base station to cease operating in reduced slotted mode comprises determining whether the base station acquired the mobile station on a traffic channel.

15 21. A method of implementing a reduced slotted mode in a base station comprising:

 receiving a request for reduced slotted mode, the request comprising a desired reduced slot cycle index value and a desired reduced slotted timer value;

20 determining whether the desired reduced slotted timer value is one of earlier in time than a maximum reduced slotted timer value and less than a maximum reduced slotted timer value;

 when the desired value is one of earlier in time than the maximum and less than the maximum, setting a reduced slotted timer value equal to the
25 desired reduced slotted timer value; and

 operating in reduced slotted mode until one of a time corresponding to a reduced slotted timer value occurs and a period of time corresponding to the reduced slotted timer value elapses, wherein a slot in which the base station
30 pages the mobile station is governed by the reduced slot cycle index value.

22. The method of claim 21 wherein before operating in reduced slotted mode, the method sends a message confirming support of reduced slotted mode.

23. The method of claim 21 wherein when the desired reduced slotted timer value is not one of earlier in time than the maximum and less than the maximum, the method comprises:

5 setting the reduced slotted timer value to the maximum reduced slotted timer value; and

 sending a message confirming support of reduced slotted mode, the message comprising the maximum reduced slotted timer value.

10 24. The method of claim 21 wherein when the base station is operating in reduced slotted mode, the method further comprises determining whether an event has occurred to cause the base station to cease operating in reduced slotted mode.

15 25. The method of claim 24 wherein determining whether an event has occurred to cause the base station to cease operating in reduced slotted mode comprises determining whether the base station acquired the mobile station on a traffic channel.

20 26. A storage medium having stored thereon a set of instructions which, when loaded into a processor of a mobile station, causes the mobile station to transmit a request for reduced slotted mode, wherein the request comprises a desired reduced slotted timer value and a desired reduced slot cycle index value;

25 determine whether the request is granted; and
 when the request is granted,

 operate in reduced slotted mode until one of a time corresponding to the reduced slotted timer value occurs and a period of time corresponding to the reduced slotted timer value elapses, wherein a
30 frequency at which the mobile station checks for a page is governed by the reduced slot cycle index value.